

FORM PTO 1350 (REV 10-2003)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER 10354*1	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/517224 No. Yet Assigned	
INTERNATIONAL APPLICATION NO. PCT/US2003/20259		INTERNATIONAL FILING DATE 24 June 2003		PRIORITY DATE CLAIMED 24 June 2002	
TITLE OF INVENTION HARDWARE IMPLEMENTATION OF THE PSEUDO-SPECTRAL TIME DOMAIN METHOD					
APPLICANT(S) FOR DO/EO/US John R. HUMPHREY et al.					
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).					
Items 11 to 20 below concern document(s) or information included:					
11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input type="checkbox"/> A preliminary amendment. 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: Verified Statement Claiming Small Entity Status					

U.S. APPLICATION NO. (Gt. No. 15 37 CFR 1.41) 10/517224 Not Yet Assigned	INTERNATIONAL APPLICATION NO. PCT/US2003/20259	ATTORNEY'S DOCKET NUMBER 10354*1																
21. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)): <input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$1080.00 <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$920.00 <input checked="" type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$790.00 <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$730.00 <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00 ENTER APPROPRIATE BASIC FEE AMOUNT = Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).		CALCULATIONS PTO USE ONLY <table style="width: 100%;"> <tr> <td style="width: 60%; text-align: right;">\$ 790.00</td> <td style="width: 40%;"></td> </tr> <tr> <td style="text-align: right;">\$</td> <td></td> </tr> </table>	\$ 790.00		\$													
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">CLAIMS</th> <th style="width: 25%;">NUMBER FILED</th> <th style="width: 25%;">NUMBER EXTRA</th> <th style="width: 25%;">RATE</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>20-20 =</td> <td>0</td> <td>x</td> </tr> <tr> <td>Independent claims</td> <td>4-3 =</td> <td>1</td> <td>x 88.00</td> </tr> </tbody> </table>		CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	20-20 =	0	x	Independent claims	4-3 =	1	x 88.00	<table style="width: 100%;"> <tr> <td style="width: 60%; text-align: right;">\$ 0.00</td> <td style="width: 40%;"></td> </tr> <tr> <td style="text-align: right;">\$ 88.00</td> <td></td> </tr> </table>	\$ 0.00		\$ 88.00	
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MULTIPLE DEPENDENT CLAIM(s) (if applicable) + TOTAL OF ABOVE CALCULATIONS =		<table style="width: 100%;"> <tr> <td style="width: 60%; text-align: right;">\$ 878.00</td> <td style="width: 40%;"></td> </tr> </table>	\$ 878.00															
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<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.		<table style="width: 100%;"> <tr> <td style="width: 60%; text-align: right;">\$ 439.00</td> <td style="width: 40%;"></td> </tr> </table>	\$ 439.00															
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Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		<table style="width: 100%;"> <tr> <td style="width: 60%; text-align: right;">\$ 40.00</td> <td style="width: 40%;"></td> </tr> </table>	\$ 40.00															
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TOTAL FEES ENCLOSED =		<table style="width: 100%;"> <tr> <td style="width: 60%; text-align: right;">\$ 479.00</td> <td style="width: 40%;"></td> </tr> </table>	\$ 479.00															
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		<table style="width: 100%;"> <tr> <td style="width: 60%; text-align: right;">Amount to be refunded:</td> <td style="width: 40%; text-align: right;">\$</td> </tr> <tr> <td style="text-align: right;">charged:</td> <td style="text-align: right;">\$</td> </tr> </table>	Amount to be refunded:	\$	charged:	\$												
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a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>479.00</u> to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>03-2775</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.																		
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.																		
SEND ALL CORRESPONDENCE TO: James M. Olsen CONNOLLY BOVE LODGE & HUTZ LLP The Nemours Building - 8th Floor 1007 North Orange Street P.O. Box 2207 Wilmington, Delaware 19899 (302) 658-9141 CUSTOMER NUMBER: 23416																		
SIGNATURE: <u>James M. Olsen</u> NAME: _____ REGISTRATION NUMBER: <u>40,408</u>		<u>Dec. 8, 2004</u>																